



Patent

Docket No.: P02082US1A

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Wang et al..

Serial No.: 10/791,491  
Filed: March 2, 2004

Group Art Unit: 1773

Examiner: Hoa T. Le

For: **NANO-SIZED POLYMER METAL  
COMPOSITES**

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P. O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

1. Pursuant to 37 C.F.R. 1.97(b) this Statement is being filed (one must be checked):

(a) ☐ Within 3 months of the filing date or date of entry into the National Stage.

(b) ☐ Before the mailing date of a first Office Action on the merits.

If this Statement is not filed before the mailing date of a first Office Action on the merits, the required certification is given below or, in the absence thereof, the Office is authorized to charge the required fee set forth in 37 C.F.R. 1.17(p) to Deposit Account No. 06-0925 for consideration of this Statement.

(c) ☒ After the period set forth in 37 C.F.R. 1.97(b) but before the mailing date of either a final action or a notice of allowance.

(1) ☐ The required certification is given below, or

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 on:	
3/6/06	Signed <u>Shan J. Fox</u>
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(2) ☐ Enclosed is a check covering the fee set forth in 37 C.F.R. 1.17(p) for consideration of this Statement, or

(3) ☒ Charge the fee set forth in 37 C.F.R. 1.17(p) to Deposit Account No. 06-0925.

(d) ☐ After the mailing date of either a final action or a notice of allowance, but before payment of the issue fee. Petition hereby is made for consideration of this Statement and the required certification indicated below.

(1) ☐ Enclosed is a check covering the fee set forth in 37 C.F.R. 1.17(i)(1), or

(2) ☐ Charge the fee set forth in 37 C.F.R. 1.17(i)(1) to Deposit Account No. 06-0925.

2. Certification (if applicable)

(b) ☐ The undersigned hereby certifies that no item of information contained in the information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the person signing the certification after making reasonable inquiry, no item of information contained in the information disclosure statement was known to any individual designated in 37 CFR § 1.56(c) more than three months prior to the filing of the information disclosure statement.

March 6, 2006  
Date

Respectfully submitted by:

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PTO/SB/08A (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Sheet 1 of 6

**Complete if Known**

Application Number	10/791,491
Filing Date	March 2, 2004
First Named Inventor	Wang
Art Unit	1773
Examiner Name	Le, Hoa T
Attorney Docket Number	P02082US1A

Examiner Initials*	Cite No. <sup>1</sup>	U.S. PATENT DOCUMENTS		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Document Number	Number-Kind Code <sup>2</sup> (if known)			
		US- 3,972,963		8/3/1976	Schwab et al.	
		US- 4,233,409		11/11/1980	Bulkley	
		US- 4,247,434		1/27/1981	Vanderhoff et al.	
		US- 4,463,129		7/31/1984	Shinada et al.	
		US- 4,543,403		9/24/1985	Isayama et al.	
		US- 4,788,254		11/29/1988	Kawakubo et al.	
		US- 4,829,130		5/9/1989	Licchelli et al.	
		US- 4,837,274		6/6/1989	Kawakubo et al.	
		US- 4,837,401		6/6/1989	Hirose et al.	
		US- 4,870,144		9/26/1989	Noda et al.	
		US- 4,904,730		2/27/1990	Moore et al.	
		US- 4,904,732		2/27/1990	Iwahara et al.	
		US- 4,906,695		3/6/1990	Blizzard et al.	
		US- 5,075,377		12/24/1991	Kawakubo et al.	
		US- 5,120,379		6/9/1992	Noda et al.	
		US- 5,514,753		5/7/1996	Ozawa et al.	
		US- 5,169,914		12/8/1992	Kaszas et al.	
		US- 5,219,945		6/15/1993	Dicker et al.	
		US- 5,237,015		8/17/1993	Urban	

Examiner Initials*	Cite No. <sup>1</sup>	FOREIGN PATENT DOCUMENTS		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Foreign Patent Document	Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				
		WO 01/87999A2		11/22/2000	Faust et al.		
		WO 02/100936		12/19/2002	Exxon Chem.		
		WO 02/31002A1		4/18/2002	UAB Res. Found.		
		WO 91/04992		4/18/1991	Exxon Chem.		

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		US- 5,247,021	9/21/1993	Fujisawa et al.	
		US- 5,262,502	11/16/1993	Fujisawa et al.	
		US- 5,290,873	3/1/1994	Noda et al.	
		US- 5,331,035	7/19/1994	Hall	
		US- 5,336,712	8/9/1994	Austgen, Jr. et al.	
		US- 5,421,866	6/6/1995	Stark-Kasley et al.	
		US- 5,447,990	9/5/1995	Noda et al.	
		US- 5,487,054	12/8/1998	McKee et al.	
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		US- 5,527,870	6/18/1996	Maeda et al.	
		US- 5,580,925	12/3/1996	Iwahara et al.	
		US- 5,614,579	3/25/1997	Roggeman et al.	
		US- 5,627,252	5/6/1997	De La Croi Habimana	
		US- 5,688,856	11/18/1997	Austgen, Jr. et al.	
		US- 5,728,791	3/17/1998	Tamai et al.	
		US- 5,733,975	3/31/1998	Aoyama et al.	
		US- 5,739,267	4/14/1998	Fujisawa et al.	
		US- 5,777,037	7/7/1998	Yamanaka et al.	
		US- 5,811,501	9/22/1998	Chiba et al.	

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		WO2004/058874	7/15/2004	Bridgestone Corp.		
		EP 0 265 142 A2	4/27/1988	Rohm and Haas		
		EP 0 590 491 A2	4/6/1994	Bridgestone		
		EP 1 099 728 A1	5/16/2001	Chiba et al.		

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		US- 5,834,563	11/10/1998	Kimura et al.	
		US- 5,849,847	12/15/1998	Quirk	
		US- 5,855,972	1/5/1999	Kaeding	
		US- 5,883,173	3/16/1999	Eispass et al.	
		US- 6,011,116	1/4/2000	Aoyama et al.	
		US- 6,020,446	2/1/2000	Okamoto et al.	
		US- 6,025,416	2/15/2000	Proebster et al.	
		US- 6,025,445	2/15/2000	Chiba et al.	
		US- 6,060,559	5/9/2000	Feng et al.	
		US- 6,087,016	7/11/2000	Feeney et al.	
		US- 6,087,456	7/11/2000	Sakaguchi et al.	
		US- 6,106,953	8/22/2000	Zimmermann et al.	
		US- 6,117,932	9/12/2000	Hasegawa et al.	
		US- 6,121,379	9/19/2000	Yamanaka et al.	
		US- 6,147,151	11/14/2000	Fukumoto et al.	
		US- 6,268,451	7/31/2001	Faust et al.	
		US- 6,277,304	8/21/2001	Wei et al.	
		US- 6,348,546	2/19/2002	Hiiro et al.	
		US- 6,573,330	6/3/2003	Fujikake et al.	

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		EP 1 134 251 A1	9/19/2001	Okamoto et al.	
		JP 08-199062	8/6/1996	Mitsubishi Chem.	

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		US- 6,598,645	7/29/2003	Larson	
		US- 6,750,297	6/15/2004	Yeu et al.	
		US- 6,759,464	7/6/2004	Ajbani et al.	
		US- 6,835,781	12/28/2004	Kondou et al.	
		US- 6,872,785	3/29/2005	Wang et al.	
		US- 6,875,818	4/5/2005	Wang	
		US- 2002/0095008	7/18/2002	Heinrich et al.	
		US- 2002/0144401	10/10/2002	Noqueroles Vines et al.	
		US- 2003/0004250	1/2/2003	Ajbani et al.	
		US- 2003/0032710	2/13/2003	Larson	
		US- 2004/0059057	3/25/2004	Swisher et al.	
		US- 2004/0127603	7/1/2004	Lean et al.	
		US- 2004/0143064	7/22/2004	Wang	
		US- 2004/0198917	10/7/2004	Castner	
		US- 2005/0101743	5/12/2005	Stacy et al.	
		US- 2005/0203248	9/15/2005	Zheng et al.	
		US- 6,706,813	3/16/2004	Chiba et al.	
		US- 6,060,549	5/9/2000	Li et al.	
		US-			

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NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Star Polymers by Immobilizing Functional Block Copolymers, by Koji Ishizu, Tokyo Institute of Technology, Meguro-ku, Tokyo, Japan, Star and Hyperbranched Polymers, 1999, ISBN 0-8247-1986-7	
		Formation of Worm-like Micelles from a Polystyrene-Polybutadiene-Polystyrene Block Copolymer in Ethyl Acetate, Canham et al., J.C.S. Faraday I, 1980, 76, 1857-1867	
		Anomalous Behaviour of Solutions of Styrene-Butadiene Block Copolymers in Some Solvents, Tuzar et al., Makromol. Chem. 178, 22743-2746 (1977)	
		Association of Block Copolymers in Selective Solvents, 1 Measurements on Hydrogenated Poly(styrene-isoprene) in Decane and in trans-Decalin, Mandema et al., Makromol. Chem. 180, 1521-1538 (1979)	
		Light-Scattering Studies of a Polystyrene-Poly(methyl methacrylate) Two-Block Copolymer in Mixed Solvents, Utiyama et al. Macromolecules Vol. 7, No. 4, July-August, 1974	
		Greenwood, N.N.; Earnshaw, A., Chemistry of the Elements, pp 1126-1127, Pergamon Press, New York 1984	
		Functionalized Core-Shell Polymers Prepared by Microemulsion Polymerization, E. Mendizabal et al., Dept. of Ingenieria Quimica, Univ. De Guadalajara, MX, 477/ANTE 97/1733-1737	
		Kink-Block and Gauche-Block Structures of Bimolecular Films, Gehard Lagaly, Chem. Int. Ed. Engl. Vol. 15 (1976) No. 10, pp 575-586	
		Linear Viscoelasticity of Disordered Polystyrene-Polyisoprene...Layered-Silicate Nanocomposites, J. Ren, Dept. of Chem Eng. Univ. of Houston, Macromol. 2000, pp 3739-3746	
		Rheology of End-Tethered Polymer Layered Silicate Nanocomposites, R. Krishnamoorti et al., Macromol. 1997, 30, 4097-4102	

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		Rheology of Nanocomposites Based on Layered Silicates and Polyamide-12, B. Hoffman et al., Colloid Polm. Sci. 278:629-636 (2000)	
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